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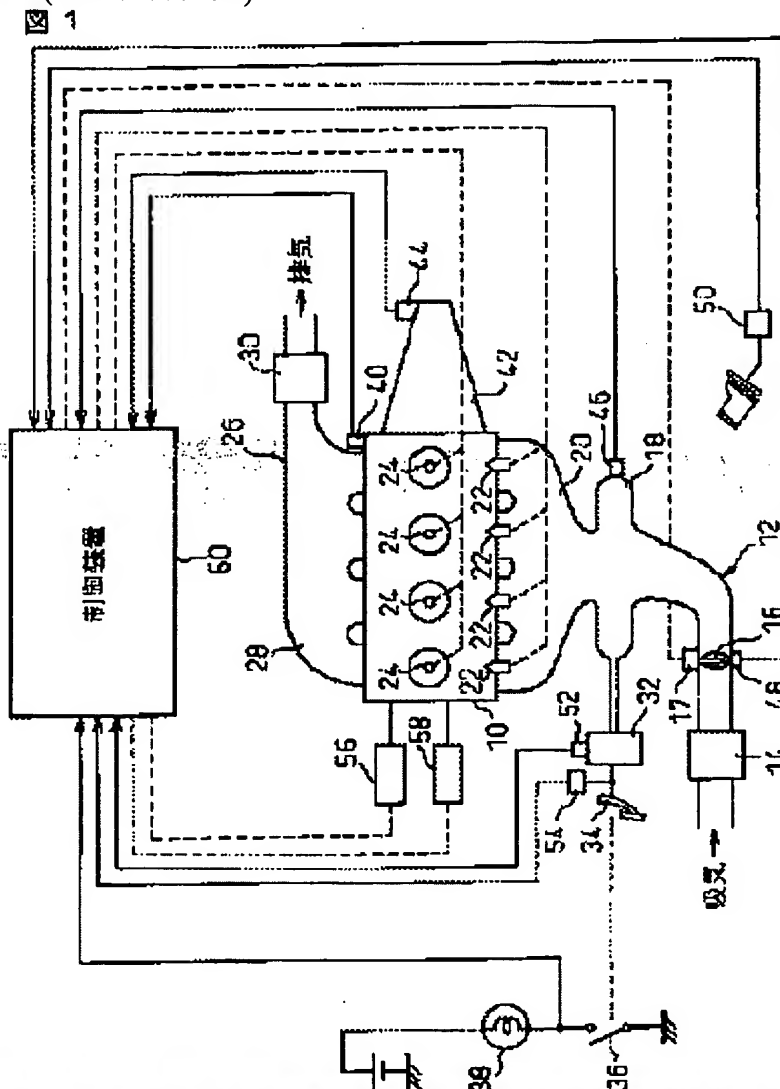
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Patent/Publication No.: (JP2001355494)



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**JP2001355494 A**

# CONTROL DEVICE FOR INTERNAL COMBUSTION ENGINE

TOYOTA MOTOR CORP

**Inventor(s):KANAMARU MASANOBU**

**Application No. 2000184587 JP2000184587 JP, Filed 20000615,A1 Published 20011226Published**  
**20011226**

**Abstract:** PROBLEM TO BE SOLVED: To provide a control device capable of realizing a control in which an equilibrium between an enhancement of a catalyst warming property and an insurance of brake performance is realized.

**SOLUTION:** The control device is loaded on a vehicle provided with a brake booster making a suction negative pressure of internal combustion engine as a servo source and carries out a late angle control of an ignition timing of the internal combustion engine under a predetermined operation state. The control device is provided with a booster state monitor means for monitoring a brake booster condition during carrying out the ignition timing late angle control and a negative pressure recover control means for solving a lack of the negative pressure by controlling a control parameter for varying an operation state of the internal combustion engine when the lack of negative pressure is detected by the booster condition monitor means. When a braking force is determined and it is judged that the braking force is lacked, the lack of the braking force is solved by increasing a suction negative pressure of the internal combustion engine by varying at least one of the suctioned air amount of the internal combustion engine or the ignition timing.

**Int'l Class:** F02D04112; B60K04100 B60K04120 B60T01700 F02D00902 F02D01302 F02D02900 F02D02902 F02D04106 F02D04108 F02D04300 F02D04500 F02P00515

**Patents Citing this One:** No US, EP, or WO patents/search reports have cited this patent. **MicroPatent**

**Reference Number:** 000355300

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